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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * Welcome to STN International * * * * * * * * *

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NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 13:28:39 ON 11 JUN 2008

FILE 'REGISTRY' ENTERED AT 13:29:00 ON 11 JUN 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 9 JUN 2008 HIGHEST RN 1026855-74-2
DICTIONARY FILE UPDATES: 9 JUN 2008 HIGHEST RN 1026855-74-2

New CAS Information Use Policies; enter HELP USAGETERMS for details.

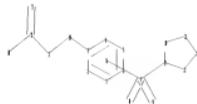
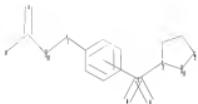
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

=>
Uploading C:\Program Files\STNEXP\Queries\10551930a.str



chain nodes :
7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6 19 20 21 22 23
chain bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14 19-20 19-23 20-21 21-22 22-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:C,O

G2:C,N

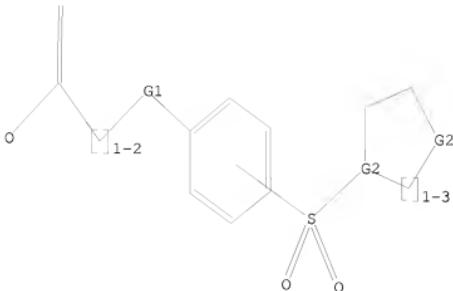
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,O
G2 C,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s ll sss ful
FULL SEARCH INITIATED 13:29:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 428274 TO ITERATE
```

| | | |
|-----------------------|-------------------|--------------|
| 100.0% PROCESSED | 428274 ITERATIONS | 1400 ANSWERS |
| SEARCH TIME: 00.00.04 | | |

L2 1400 SEA SSS FUL L1

| | | | |
|----------------------|--|------------|---------|
| => fil caplus | | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | | ENTRY | SESSION |
| FULL ESTIMATED COST | | 178.82 | 179.03 |

```
FILE 'CAPLUS' ENTERED AT 13:30:13 ON 11 JUN 2008
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```

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FILE COVERS 1907 - 11 Jun 2008 VOL 148 ISS 24
FILE LAST UPDATED: 10 Jun 2008 (20080610/ED)

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<http://www.cas.org/legal/infopolicy.html>

=> S 12
L3 215 L2

=> fil reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE
ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 0.48 | 179.51 |

FILE 'REGISTRY' ENTERED AT 13:30:42 ON 11 JUN 2008
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DICTIONARY FILE UPDATES: 9 JUN 2008 HIGHEST RN 1026855-74-2

New CAS Information Use Policies. enter HELP USAGE TERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqen/stndoc/properties.html>

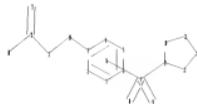
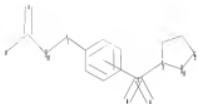
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1992

L4 SCREEN CREATED

=>
Uploading C:\Program Files\STNEXP\Queries\10551930b.str



chain nodes :
7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6 19 20 21 22 23
chain bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14 19-20 19-23 20-21 21-22 22-23

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:C,O

G2:C,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom

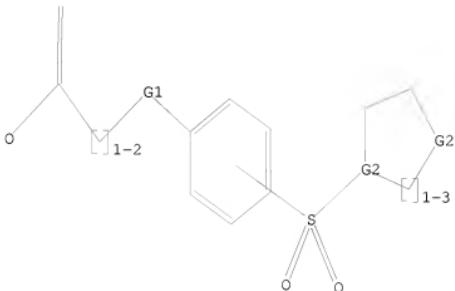
L5 STRUCTURE UPLOADED

=> que L5 AND L4

L6 QUE L5 AND L4

```
=> d 14  
L4 HAS NO ANSWERS  
L4 SCR 1992
```

```
=> d 15  
L5 HAS NO ANSWERS  
L5 STR
```



G1 C,O
G2 C,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s 15  
SAMPLE SEARCH INITIATED 13:34:59 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 21263 TO ITERATE
```

```
9.4% PROCESSED 2000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) 7 ANSWERS  
SEARCH TIME: 00.00.03
```

```
FULL FILE PROJECTIONS: ONLINE **COMPLETE**  
BATCH **COMPLETE**  
PROJECTED ITERATIONS: 416531 TO 433989  
PROJECTED ANSWERS: 971 TO 2005
```

L7 7 SEA SSS SAM L5

```
=> s 15 sss ful  
FULL SEARCH INITIATED 13:35:11 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 428274 TO ITERATE
```

```
100.0% PROCESSED 428274 ITERATIONS 1400 ANSWERS  
SEARCH TIME: 00.00.03
```

L8 1400 SEA SSS FUL L5

=>Testing the current file.... screen

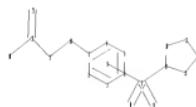
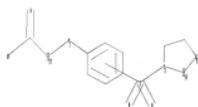
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1993 AND 2006

L9 SCREEN CREATED

=>

Uploading C:\Program Files\STNEXP\Queries\10551930c.str



chain nodes :

7 8 9 10 11 12 13 14

ring nodes :

1 2 3 4 5 6 19 20 21 22 23

chain bonds :

3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-23 20-21 21-22 22-23

exact/norm bonds :

3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14 19-20 19-23 20-21 21-22 22-23

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:C,O

G2:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom

L10 STRUCTURE UPLOADED

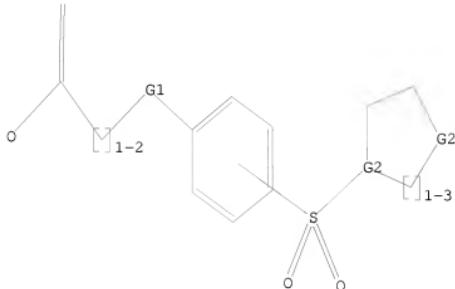
=> que L10 AND L9

L11 QUE L10 AND L9

=> d l10

L10 HAS NO ANSWERS

L10 STR



G1 C,O

G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l10 sss ful
FULL SEARCH INITIATED 13:38:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 428274 TO ITERATE

100.0% PROCESSED 428274 ITERATIONS
SEARCH TIME: 00.00.03

1400 ANSWERS

L12 1400 SEA SSS FUL L10

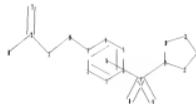
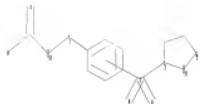
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1993 AND 2008

L13 SCREEN CREATED

=>
Uploading C:\Program Files\STNEXP\Queries\10551930d.str



chain nodes :
7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6 19 20 21 22 23
chain bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
3-10 7-9 7-8 7-19 10-11 11-12 12-13 12-14 19-20 19-23 20-21 21-22 22-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:C,O

G2:C,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom

L14 STRUCTURE UPLOADED

=> que L14 AND L13

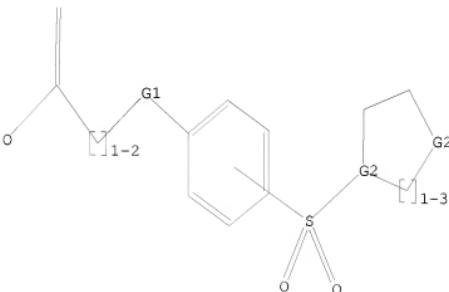
L15 QUE L14 AND L13

100% N2H4.H2O, heated 17 hrs. in a pressure bottle in a steam bath, gives 80% p-(benzylmercapto)benzhydrazide, m. 166°, whose p-tolylsulfonyl derivative (VIII), m. 180° (96% yield). VIII (18 g.) in 95 cc. (CH2OH)2 at 160°, treated with 8.64 g. anhydrous Na2CO3 and heated 1 min., gives 80% p-(benzylmercapto)benzaldehyde (IX), very pale yellow, m. 70°. IX (8 g.), 6.3 g. hippuric acid, and 8 g. fused AcONa, treated with 50 cc. Ac2O, and heated 15 min. on the steam bath, give 74% 2-phenyl-4-[4-(benzylmercapto)-benzylidene]-5(4H)-oxazolone (X), orange, m. 186°; 14.9 g. X, boiled 10 min. with 1490 cc. 66% EtOH containing 1% NaOH, gives 96% α -benzamido-4-(benzylmercapto)-cinnamic acid (XI), m. 214°. XI (9.8 g.), 10 g. red P, and 200 cc. HI (d. 1.7), refluxed 3 hrs., the filtrate evaporated to dryness, the aqueous solution extracted with ether to remove BzOH, treated with 4 N iodine in KI, heated to boiling, and brought to pH 5 with NH4OH, give 88% crude disulfide, S(C6H4CH2CH(NH2)CO2H)2; reduction with Zn in 5 N HCl gives β -(p-mercaptophenyl)alanine, whose HCl salt (with 2 mols. H2O) decomposes 222°. 3-Thianaphthenecarbonyl chloride (6.3 g.) in 30 cc. xylene, refluxed 4 hrs. with 3 g. 5% Pd-BaSO4 in a stream of H, gives 42.5% 3-thianaphthene-carboxaldehyde (XII), m. 54°. Me 3-thianaphthene-carboxylate (15 g.) and 9 cc. 90% N2H4.H2O in 37.5 cc. EtOH, refluxed 8 hrs., give 68% 3-thianaphthene-carboxyhydrazide, m. 176-77°; the p-tolylsulfonyl derivative (XIII), m. 201-3°, 94%; 3.1 g. XIII in 15 cc. (CH2OH)2 at 160°, treated with 0.96 g. anhydrous Na2CO3, gives 63% XII; 0.7 g. XII, 1 g. Na hippurate, and 2.5 cc. Ac2O, heated 30 min. at 100°, give 2-phenyl-4-(3-thianaphthylmethylene)-5(4H)-oxazolone (XIV), yellow, m. 219-20°; 0.8 g. XIV, 0.1 cc. HI, 0.2 g. red P, and 4.5 cc. AcOH, refluxed 1 hr., give 87% of the N-Bz derivative, m. 226-8°, of β -(3-thianaphthyl)alanine (XV), m. 248-50° (decomposition). None of the above-mentioned NH2 acids inhibited the growth of Staphylococcus aureus or Escherichia coli in broth up to the limit of their solubility. Against Streptococcus hemolyticus in broth, XV inhibited growth at a dilution of 1 in 20,000; the other acids were very weakly active. VIA has a slight tuberculostatic action in vitro, but is less effective than (p-H2NC6H4)2SO2.

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,O

G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 13:28:39 ON 11 JUN 2008)

FILE 'REGISTRY' ENTERED AT 13:29:00 ON 11 JUN 2008
L1 STRUCTURE uploaded
L2 1400 S L1 SSS FUL

L3 FILE 'CAPLUS' ENTERED AT 13:30:13 ON 11 JUN 2008
215 S L2

FILE 'REGISTRY' ENTERED AT 13:30:42 ON 11 JUN 2008
L4 SCREEN 1992
L5 STRUCTURE uploaded
L6 QUE L5 AND L4
L7 7 S L5
L8 1400 S L5 SSS FUL
L9 SCREEN 1993 AND 2006
L10 STRUCTURE uploaded
L11 QUE L10 AND L9
L12 1400 S L10 SSS FUL
L13 SCREEN 1993 AND 2008
L14 STRUCTURE uploaded
L15 QUE L14 AND L13
L16 471 S L15 SSS FUL

FILE 'CAPLUS' ENTERED AT 13:40:58 ON 11 JUN 2008
L17 53 S L16

```
=> logoff y
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                           290.29       1011.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                    ENTRY        SESSION
CA SUBSCRIBER PRICE                            -42.40       -42.40
```

STN INTERNATIONAL LOGOFF AT 13:42:56 ON 11 JUN 2008